

ABSTRACT

A composting system and method incorporating a vertical insulated composting tower with one or more compartments. The base of each compartment being fitted with a plenum and grate through which air is self induced and output is regularly removed. The method of composting biodegradable waste material utilises a plug flow principle including inducing low air flow rates through a compost pile using column energy. The method utilises high temperature pyro/thermopylic micro-organism activity in the compost pile and retaining pile energy above stoichiometric levels by controlling the induced air flow. Evolved gas extraction is utilised in the compost pile and constant biofilm is maintained by combined cycle anaerobic/aerobic operation.